

Table: List of changes to Science and Location Keywords.	
178 keywords were added and 20 keywords were modified.	
The rationale for the changes includes: Align w/ Common Terminology; Align w/ ISO Place Keywords; Align w/ ECHO "SpatialKeyword"; Prompted by Ancillary Keyword; Prompted by Detailed Variable; Prompted by Record Examination; Requested By Provider.	
Release 8.2	For Science keywords under (Terrestrial Hydrosphere > Surface Water):
	Add New Keywords: (Aquifer Depth, Average Flow, Base Flow, Drainage Amount, Drainage Direction, Flood Frequency, Flood Levels, Flow Velocity, Inundation Amount, Inundation Frequency, Inundation Level, Peak Flow, Recharge Amount, Recharge Frequency, Runoff Rate, Surface Water Features, Surface Water Processes/Measurements, Total Runoff, Watershed Boundaries, Watershed Drainage, Watershed Length, Watershed Shape, Watershed Slope)
	Replace Keywords: ("Drainage" with "Drainage Basins"; "Lakes" with "Lakes/Reservoirs")
	For Science keywords under (Terrestrial Hydrosphere > Ground Water):
	Add New Keywords: (Ground Water Processes/Measurements, Ground Water Features, Aquifer Recharge, Subsurface Flow, Recharge Amount, Recharge Frequency, Aquifer Depth, Dispersion Rate, Dispersion Frequency, Drainage Direction, Drainage Amount, Discharge Amount, Discharge Rate, Infiltration Rate, Infiltration Amount, Infiltration Frequency, Subsidence Amount, Subsidence Rate, Percolation Amount, Percolation Rate, Intrusion Amount, Intrusion Rate, Average Flow, Peak Flow, Flow Velocity, Water Table Depth)
	Replace Keywords: ("Groundwater Discharge/Flow" with "Discharge"; "Springs" with "Freshwater Springs")
	For Science keywords under (Oceans > Coastal Processes):
	Add New Keyword: (Coral Bleaching)
	For Science keywords under (Human Dimensions > Natural Hazards):
	Add New Keyword: (Burned Area)
Release 8.3	For Location Keywords:
	Add New Keywords: (Boston, British Indian Ocean Territory, Burlington, Central Pacific Kwaj , Davenport, Des Moines, Florida Keys, French Southern Territories, Gaylord, Jersey, La Crosse, Mayotte, Portland, Timor-Leste, United States Minor Outlying Islands)
	Replace Keywords: ("Brunei" with "Brunei Darussalam"; "Burma" with "Myanmar")
Release 8.4	For Science Keywords under (Biosphere > Ecosystems):
	Add New Keywords: (Abyssal, Alpine Tundra, Anthropogenic/Human Influenced Ecosystems, Arctic Tundra, Boreal Forest/Taiga, Brackish Marsh, Cave/Subterranean, Chaparral, Cold seep, Coral Reef, Desert scrub, Ecosystems, Ephemeral Stream, Freshwater Ecosystems, Headwater Stream, Hydrothermal vent, Intermittent Stream, Kelp Forest, Lagoon, Mangrove Swamp, Montane Lake, Montane shrubland, Mudflat, Neritic Zone, Oceanic Zone, Oyster Reef, Perennial Stream/River, Resource Development Site, River Delta, Rocky Intertidal, Saline Lake, Salt Marsh, SAV/Sea Grass Bed, Subalpine, Temperate Coniferous Forest, Temperate Deciduous Forest, Temperate Mixed Forest, Temperature Rainforest, Tropical Rainforest, Vernal Pool)
	Replace Keywords: ("Benthic Habitat" with "Benthic"; "Coastal Habitat" with "Coastal"; "Demersal Habitat" with "Demersal"; "Estuarine Habitat" with "Estuary"; "Lakes" with "Lake/Pond"; "Marine Habitat" with "Marine Ecosystems"; "Montane Habitat" with "Montane Grassland"; "Pelagic Habitat" with "Pelagic"; "Reef Habitat" with "Reef"; "River/Stream Habitat" with "River/Stream";)
	For Science Keywords under (Biosphere > Vegetation):
Release 8.4	Add New Keywords: (Fraction of Absorbed Photosynthetically Active Radiation (FAPAR), Leaf Area Index (LAI), Normalized Difference Vegetation Index)
	For Science keywords under (Atmosphere > Atmospheric Phenomena):
	Add New Keywords: (Accumulated Cyclone Energy, Blizzards, Cold Wave, Cyclones (SW Indian), Derecho, Destruction Potential Index, Enhanced Fujita Scale Rating, Extratropical Cyclone Frequency, Extratropical Cyclone Motion, Extratropical Cyclone Track, Extratropical Cyclones, First Freeze/Frost Date, First Freeze/Frost Probability, First Moderate Freeze/Frost Date, Freeze Free Period Length, Gale , Hail Storms , Heat Wave, Hurricane Force Wind Extent, Hurricanes (N. Atlantic/E. Pacific), Ice Storms , Lake Effect Snow, Landfall Intensity, Last Freeze/Frost Date, Last Freeze/Frost Probability, Last Moderate Freeze/Frost Date, Maximum 1-Minute Sustained Wind, Maximum Surface Wind, Maximum Wind Gust, Microburst, Minimum Central Pressure, Peak Intensity, Polarized Reflectance, Rain Storms , Saffir-Simpson Scale at Landfall (Category 1), Saffir-Simpson Scale at Landfall (Category 2), Saffir-Simpson Scale at Landfall (Category 3), Saffir-Simpson Scale at Landfall (Category 4), Saffir-Simpson Scale at Landfall (Category 5), Severe Cyclonic Storms (N. Indian), Severe Tropical Cyclones (SW Pacific/SE Indian) , Snow Storms , Squall, Storm System Motion, Subtropical Cyclones, Subtropical Depression Track, Subtropical Storm Motion, Subtropical Storm Track, Tornado Climatology, Tornado Density, Tornado Frequency, Tornado Path Length, Tornado Path Width, Tornado Vortex Signature, Total Freezing Rain Accumulation, Tropical Cyclone Motion, Tropical Cyclone Radius, Tropical Cyclone Track, Tropical Cyclones , Tropical Depression Frequency, Tropical Depression Motion, Tropical Depression Track, Tropical Storm Force Wind Extent, Tropical Storm Frequency, Tropical Storm Motion, Tropical Storm Track, Typhoons (Western N. Pacific), Water Spout, Wind Storms)
	Replace Keywords: ("Cyclones" with "Extratropical Cyclones", "Subtropical Cyclones" or "Tropical Cyclones"; "Atmospheric Phenomena" with "Weather Events"; "Freeze" with "Freeze/Frost")
	For Science keywords under (Atmosphere > Atmospheric Radiation):
	Add New Keyword: (Polarized Reflectance)